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By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kaser et al.

Title: POLYCYCLIC AROMATIC HYDROCARBON INDUCED MOLECULES

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Official Draftsman

Commissioner for Patents

Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 1E, 1F, 2A, 2B, 2C, 3, 4, as Eleven (11) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 09-0108. A duplicate copy of this communication is enclosed.

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 18th April 2001

Matthew R. Kaser, D.Phil.

Reg. No. 44,817

Direct Dial Telephone: (650) 845-4596

3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 845-4166

FOOTNOTES

ADP 100
SUBCLASS
DRAFT 13

11	5' CTTCA GTT CCT CGA AGA GAT TCA CTT TCA AAA ACA TCA ACT CCT TAT AAC AAA TCA	11	56
65	AAC AAA GCA GCA AGC CAA CAA GGG ACC CCA TGG GAA ACA CTT GTC GTG TTT GCT	101	110
119	ATC AAC TTG AAG CAA TTA AAC GTT CAA ATG AAT ATG AGT AAT GTA ATG GGA AAT	155	164
173	ACA ACT TGG ACA ACT AGT GGT TTG AAG AGC CAG GGC CGT CTG TCA GTA GGA AGT	209	218
227	AAT CGT GAT CGA GAG ATC AGC ATG TCT GTT GGT CTG GGA AGA TCA CAA TTA GAT	263	272
281	TCT AAA GGA GGA GTA GTT GGA GGG ACC ATA GAT GTC AAT GCT TTG GAG ATG GTT	317	326
335	GCT CAT ATT TCT GAA CAT CCA AAT CAG CAA CCC AGT CAC AAA ATT CAG ATT ACT	371	380
389	ATG GGT TCT ACT GAA GCT CGT GTT GAT TAC ATG GGC TCA AGT ATC CTC ATG GGC	425	434

FIGURE 1A

TEST 40 "4408E860

APPROVAL	FIG.
DRAFT	SUBCLASS

443	ATC TTC AGT AAT GCT GAT	452	CTT AAG CTT CAG GAT GAA	461	CTT AAG CTT CAG GAT GAA	470	TGG AAA GTA AAC TTG TAT	488	TAT
	I F S N A D L K L Q D E W K V N L Y								
497	AAT ACA TTG GAT TCA AGC ATA	506	ACT GAT AAA AGT GAG	515	ACT GAT AAA AGT GAG	524	ATT TTC GTC CAT GGA GAT	542	GAT
	N T L D S S I T D K S E I F V H G D								
551	TTG AAG TGG GAT ATT TTC	560	CAA GTA ATG ATA TCA	569	CAA GTA ATG ATA TCA	578	AGG TCA ACC ACA CCA GAT CTG	596	CTG
	L K W D I F Q V M I S R S T P D L								
605	ATA AAA ATA GGA ATG AAG	614	CTC CAG GAA TTT TTC	623	CTC CAG GAA TTT TTC	632	ACA CAA CAA TTT GAT ACC AGC	650	AGC
	I K I G M K L Q E F F T Q Q F D T S								
659	AAA CGA GCT CTG TCT ACC	668	TGG GGA CCA GTT CCT	677	TGG GGA CCA GTT CCT	686	TAC CTT CCG CCA AAG ACA ATG	704	ATG
	K R A L S T W G P V P Y L P P K T M								
713	ACT AGC AAC CTA GAA AAA	722	AGT TCA CAA GAA CAA	731	AGT TCA CAA GAA CAA	740	TTA CTT GAT GCA GCA CAT	758	CAT
	T S N L E K S S Q E Q L L D A A H H								
767	CGA CAC TGG CCT GGA GTA	776	TTG AAG GTG GTA TCA	785	TTG AAG GTG GTA TCA	794	GGA TGC CAC ATA TCC TTA TTT	812	TTT
	R H W P G V L K V S G C H I S L F								
821	CAG ATT CCA TTA CCA GAA	830	GAT GGA ATG CAA TTT	839	GAT GGA ATG CAA TTT	848	GGA TCA ATG AGC TTA CAT	866	CAT
	Q I P L P E D G M Q F G G S M S L H								

FIGURE 1B

FIGURE 1C

FOOTHO-4403E360

ADP	FIG.
DRAFTS	SUBCLASS

1307	1316	1325	1334	1343	1352
CAT GAA ACA GAG ACT ATC TTT GCA TTA CCA AGG ATG CAG CTT GAC TTT AAA TCC					
H E T E T I F A L P R M Q L D F K S					
1361	1370	1379	1388	1397	1406
ATT CAT GTT CAA GAA CCA CAG GAG CCT TCA TTA CAG GAT GCC AGC CTG AAG CCA					
I H V Q E P Q Q E P S L Q D A S L K P					
1415	1424	1433	1442	1451	1460
AAA GTA GAA TGT AGT GTG GTG ACA GAG TTC ACT GAC CAC ATT TGT GTG ACT ATG					
K V E C S V V T E F T D H I C V T M					
1469	1478	1487	1496	1505	1514
GAT GCT GAG CTC ATC ATG TTT CTT CAT GAT TTA GTA TCA GCT TAT CTT AAA GAA					
D A E L I M F L H D L V S A Y L K E					
1523	1532	1541	1550	1559	1568
AAA GAA AAA GCC ATC TTT CCA CCT CGG ATT TTA TCT ACT CGA CCA GGA CAA AAA					
K E K A I F P P P R I L S T R P G Q K					
1577	1586	1595	1604	1613	1622
AGT CCA ATT ATT ATA CAT GAC GAC AAT TCC TCT GAT AAA GAT AGA GAA GAT AGC					
S P I I I H D D N S S D K D R E D S					
1631	1640	1649	1658	1667	1676
ATC ACT TAT ACT ACT GTG GAC TGG AGA GAT TTT ATG TGC AAT ACA TGG CAC CTA					
I T Y T T V D W R D F M C N T W H L					

FIGURE 1D

FOOTNOTES

1685 GAA CCT ACT CTT AGA TTA ATT TCT TGG ACT GGA AGA AAG ATT GAT CCA GTA GGT 1730
E P T L R L I S W T G R K I D P V G

1739 GTT GAT TAT ATT CTT CAA AAA TTG GGC TTT CAT CAT GCT AGG ACT ACT ATT CCT 1784
V D Y I L Q K L G F H H A R T T I P

1793 AAA TGG CTT CAA AGA GGA GTC ATG GAT CCA CTG GAC AAG GTT CTG TCA GTT CTT 1838
K W L Q R G V M D P L D K V L S V L

1847 ATC AAA AAG CTC GGT ACT GCA CTA CAG GAT GAA AAG GAA AAG AAA GGC AAA GAC 1892
I K K L G T A L Q D E K E K K G K D

1901 AAA GAA GAA CAC TAA AAA AGT AAT TTG ATC TGT GAA CAA ATT ATG ATT GTG TCT 1946
K E E H

1955 GTT TTA TTA CAC TGG AGT GTT TTT TTA GTA TAA TAA TTT GAA ATA TAA CTT TAA 2000

2009 AAT AAT TCT AAA TTT GTG GCT ATA ATT AAA AGT TTG TAA GTT AAC CTG TTC TAG 2054
2018 2027 2036 2045

FIGURE 1E

TCST40" 114088850

APPROVAL	FIG.
SUBCLASS	
DRAFTSMAN	

2063	2072	2081	2090	2099	2108
TTC CAT CAT TCT GTG TAC AGT GAA GTA TTG CAT GAT AAT GTA AAT TTT GTG AAA					
2117	2126	2135	2144	2153	2162
AAC TAG ATT AAA ATA TAT AAC TGC TTG TTA TGG TTT ATA ATT ATA TAA TGT GCA					
2171	2180	2189	2198	2207	2216
ATA CAA TTC CTG CAT CTT TAA AAT GTC TGC AGA ATA ACT GTG AAT TTT TTT GTT					
2225	2234	2243	2252	2261	2270
ATT GGA TTG GCC GTA ACT TTT AGA AAA AAA TCT TGT TGA TGA TAA TGT GAT TTT					
2279	2288	2297	2306	2315	2324
GGG GAG GTC ATT AAT TGC TTT TTC TTT TTT AAA TGT AGA CTT ATA TAA ATA CCT					
2333	2342	2351	2360	2369	2378
GTT TGT ATA TAG CTT GAG TAA TTG TGA TAT GAT TGT ATA CCA CTA AAA TAT TGT					
2387	2396	2405	2414	2423	2432
TAA CTA TTA TAA TAA AGT CAC AGT AAT GGT TTA AAA AAG AAA AAA GAA AAA AAA					

AAA AAA A 3'

FIGURE 1F

5' GCTTG AAG GCG GGA AAA TAC GGA ATG GAG CGA CAG GGA GTG GAC GTG CCC CAT GTG
11 20 29 38 47 56
M E R Q G V D V P H V

AAA TGC AAA GAC CAG GAA CCG CAG CCC TTG GGG GAG AGC AAG GAG CAT CCG CGG
65 74 83 92 101 110
K C K D Q E P Q P L G E S K E H P R

TGG GAA GAG AAC TGC GAG GAG GAA GCT GGT GGA GGG CCA GCT AGT GCC AGT TGC
119 128 137 146 155 164
W E E N C E E E A G G G P A S A S C

CAG CTG ACG GTC CTG GAA GGA GGG AAG TCG GGA CTC TAC TTC TCC TCT CTG GAC TCA
173 182 191 200 209 218
Q L T V L E G G K S G L Y F S S L D S

AGC ATT GAC ATC CTG CAG AAG AGA GCC CAG GAG CTG ATC GAA AAC ATC AAC AAG
227 236 245 254 263 272
S I D I L Q Q K R A Q E L I E N I N K

AGC CGG CAA AAG GAC CAT GCA CTC ATG ACC AAC TTC AGG AAC AGC CTG AAG ACC
281 290 299 308 317 326
S R Q K D H A L M T N F R N S L K T

FIGURE 2A

335	344	353	362	371	380
AAG GTT TCG GAT CTG ACA GAG AAA TTA GAG GAG AGG ATC TAT CAG ATT TAT AAT					
K V S D L T E K L E E R I Y Q I Y N					
389	398	407	416	425	434
GAC CAC AAC AAG ATC ATC CAG GAA AAG CTC CAA GAG TTC ACC CAG AAA ATG GCA					
D H N K I I Q E K L L Q E F T Q K M A					
443	452	461	470	479	488
AAG ATC AGC CAT TTG GAG ACA GAG CTC AAA CAA GTC TGC CAC AGC GTG GAG ACT					
K I S H L E T E L K Q Q V C H S V E T					
497	506	515	524	533	542
GTG TAC AAA GAC CTG TGT CTC CAG CCT GAG CAG AGC CTA AGA CTC AGA TGG GGG					
V Y K D L C L Q P E Q S L R L R W G					
551	560	569	578	587	596
CCA GAC CAC TCT AGG GGA AAG TCC CCA CCA CGT CCC GGC AAC TCA CAG CCC CCA					
P D H S R G K S P P P R P G N S Q P P					
605	614	623	632	641	650
GAC GTG TTC GTT TCT TCT GTG GCT GAA ACT ACT ACT TCT TCT CAG GCC ACT GCT TCA GAA					
D V F V S S V A E T T T S Q A T A S E					

FIGURE 2B

TCBTHO" 4408E860

APPENDIX	FIG.
DRAFT	SUBCLASS

659	GTA CAG ACC AAC AGA GAT GGT GAA TGC TGA CAG CTG CCG GGA GAC TCA CGC CTT	668	677	686	695	704
V	Q T N R D G E C					
713	AGT GAC AGT CTC CAG GAG AAG ACT GTG AGG CCA CCA TTT GGG CCA CAC TGA GAA	722	731	740	749	758
767	ATT GTT TTT CAT GGT TCT ATA ATG CAT CTT GGC AGA AAA CAA AAA CCC AAA	776	785	794	803	812
821	GCT CCT TGT GCT GAA CTC CCA AAA TGT AGC AAG TCC AGC CCT CTC CAT AGG CCC	830	839	848	857	866
875	AGG CTT CGT GCT CCC CAC CCT TGG CAA GTT CTC CCC ACC CCC AGC CCC ACA GTT	884	893	902	911	920
929	TAT TAA ATG TTT GAT TTT CAA AAA 3'	938				

FIGURE 2C

FIGURE 3

FOETHO" HHOEEBO

APPRO	FIG.
CLASS	SUBCLASS
DRAFTSM	

1	M A L S S Q I W A A C L L L L L L A S L T S G S V F P Q Q	1642580
1	M A L S T R I Q A A C L L L L L L - A S L S S G A Y L R Q Q	700139271
31	T G Q L A E L Q P Q D R A G A R A S W M P F Q - R R R R R	1642580
30	T R Q T T A L Q P W H G A E S K T D D S A L L M L K R R K R	700139271
60	D T H F P I C I F C C G C C H R S K C G M C C K T	1642580
60	D T N F P I C L F C C K C C K N S S C G L C C I T	700139271

FIGURE 4